

ABSTRACT

AUTO-NEGOTIATION OF TRANSCEIVER ROLES IN  
COMMUNICATION SYSTEMS

The present invention allows a transceiver unit to freely and  
5 automatically choose whether it will operate as a central unit or as a remote  
unit, depending on the capabilities of the peer transceiver unit, which it is  
connected to.

The transceiver unit listens first to any signal the peer may  
transmit to initiate the handshake procedure. Such a signal would de-facto  
10 identify the peer as a remote unit or as a central unit and would allow the  
transceiver unit to select the appropriate role. If no signal is detected, the  
transceiver unit tries to initiate the handshake procedure and waits for the  
corresponding signal from the peer.

In a first embodiment, the transceiver unit tries to initiate the  
15 handshake procedure as a remote unit only.

In a second embodiment, the transceiver unit tries to initiate the  
handshake procedure both as a central unit and as a remote unit.